IAP13 Rec'd PCT/PTO 12 DEC 2006

			WHITTIOUS	LL GENTLO		
FORM PTO-1390			U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No.		
TRANSMITTAL LETTER TO THE UNITED STATES			2923-775			
			ED OFFICE (DO/EO/US) G UNDER 35 U.S.C. 371	U.S. Application No. (if known)		
				10/591,714		
		TIONAL APPLICATION NO. 05/002255	INTERNATIONAL FILING DATE March 3, 2005	PRIORITY DATE CLAIMED March 6, 2004 & January 27, 2005		
		INVENTION LLY STABLE SOLID LITHIUM	ION CONDUCTOR			
		IT(S) FOR DO/EO/US EPPNER, Venkataraman THA	NGADURAI			
Applican informati			States Designated/Elected Office (DO/EO/	US) the following items and other		
1. []	This is a FIRST submission of	of items concerning a filing under 35 U.S.C.	371		
· 2. [X]	This is a SECOND or SUBSI	EQUENT submission of items concerning a	submission under 35 U.S.C. 371.		
3. []	This is an express request to include items (5), (6), (9) and	begin national examination procedures (38) (21) indicated below.	5 U.S.C. 371(f)). The submission must		
4. []	The US has been elected (A	rticle 31).			
5. []	A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. [] is attached hereto (required only if not communicated by the International Bureau). b. [] has been communicated by the International Bureau. c. [] is not required, as the application was filed in the United States Receiving Office (RO/US)				
6. []	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. [] is attached hereto. b. [] has been previously submitted under 35 U.S.C. 154(d)(4).				
7. []	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. [] are attached hereto (required only if not communicated by the International Bureau). b. [] have been communicated by the International Bureau. c. [] have not been made; however, the time limit for making such amendments has NOT expired. d. [] have not been made and will not be made.				
8. []	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).				
9. []	An oath or declaration of the	inventor(s) (35 U.S.C. 371(c)(4)).			
10. [An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 					
ITEMS 1	1.	TO 20. below concern other	r document(s) or information included:			
•]	An assignment document for 37 CFR 3.28 and 3.31 is included	atement under 37 CFR 1.97 and 1.98. recording. A separate cover sheet in com uded.	pliance with		
13. [14. []	A preliminary amendment. An Application Data Sheet under 37 CFR 1.76.				
15. [16. []	A substitute specification. A power of attorney and/or cl	nange of address letter.	OT Duly 404-20		
17. []	and 35 U.S.C. 1.821-1.825	the sequence listing in accordance with PC			
18. [19. []	A second copy of the publish A second copy of the English	ed international application under 35 U.S.C language translation of the international a	7. 154(d)(4).pplication under 35 U.S.C. 154(d)(4).		

U.S. APPLICATION NO. (If known) INTERNATIONAL APPLICATION NO. PCT/JP2005/002255		ATTORNEY DOCKET NO. 2923-775					
[x] IB/373 [x]	20. X Other items or information: [x] IB/373 [x] ISA/237 [] ISA/210(ISR) [] IB/301 [] IB/304 [] IB/308 [] IB 401 [] IB/409(IPER) [] IB/416 [] Published Application WO/						
21. The following fees a	are submitte	ed:		CALCULATIONS	PTO USE ONLY		
Basic Nation	onal Fee		\$300.00	\$			
	ed by ISA/US	or the IPER prepared by IPEA/US indicates	CO	\$			
		Article 33(1)-(4)					
satisfy provisions of PC Search fee (37 CFR 1.445(a) to the USPTO as an In International Search Report p or previously communi	23. Search Fee If the written opinion of the ISA/US or the IPER prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)						
		TOTAL OF 2	21, 22 AND 23 =	\$			
(excluding sequence li	listing or com	drawings filed in paper over 100 puter program listing filed in an electronic medium). nal 50 sheets of paper or fraction thereof.		\$			
Total Sheets Ext	tra Sheets	Number of each additional 50 or fraction thereof	Rate				
- 100 =	/ 50 =		x 250	\$	· · · · · · · · · · · · · · · · · · ·		
Surcharge of \$130.00 for furn date of commencement of the		the search fee, examination fee, or the oath or declarage (37 CFR 1.492(h)).	ation after the	\$			
Claims	Number Filed	Number Extra	Rate				
Total Claims	-20 =		X \$50.00	\$			
Independent Claims	- 3 =	40 F 440 - 4	X \$200.00	\$			
Multiple dependent claim(s)	(if applicable)		+ \$360.00	\$			
		TOTAL OF ABOVE CAL	.CULATIONS =	\$			
Applicant claims small	I entity status.	The fees indicated above are reduced by 1/2.		\$			
	\$.,,,,,,					
Processing fee of \$130.00 for priority date (37 CFR 1.492(f)	\$						
	\$						
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$			
	\$						
	Amount to be refunded	\$					
	Amount to be charged	\$					

U.S. APPLICATION NO. (If known) 10/591,714		INTERNATIONAL APPLICATION NO. MARCH 3, 2005		ATTORNEY DOCKET NO. 2923-775		
a. A check in the amount of \$ to cover the above fees is enclosed.						
b. 🔲	Please charge my Deposit Account No. 02-2135 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. 🔲	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-2135. A duplicate copy of this sheet is enclosed.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.						
SEND ALL CORRESPONDENCE TO:						
Customer No. 06449						
1425 K St.,	n, D.C. 20005		Robert B. Mu Name 22,98 Registration I	0		

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 34354P WO-1	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/EP2005/002255	International filing date (day/month/year) 03 March 2005 (03.03.2005)	Priority date (day/month/year) 06 March 2004 (06.03.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237 Applicant WEPPNER, Werner			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a). 2. This REPORT consists of a total of 5 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead. 3. This report contains indications relating to the following items: Box No. II Basis of the report					
In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead. 3. This report contains indications relating to the following items: Box No. II Basis of the report	1.				
3. This report contains indications relating to the following items: Box No. I Basis of the report	2.	This REPORT consists of a total	of 5 sheets, including this cover sheet.		
Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the prior to the prior to the prior to the expiration of 30 months from the prior to the prio					
Box No. III	3.	This report contains indications	relating to the following items:		
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the pri		Box No. I	Basis of the report		
applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the principal application of 30 months fr		Box No. II	Priority		
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Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the pri		Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
Box No. VIII Certain observations on the international application 4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the pri		Box No. VI	Certain documents cited		
 The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the principle. 		Box No. VII	Certain defects in the international application		
not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the pri-		Box No. VIII	Certain observations on the international application		
	4.	not, except where the applicant			

	Date of issuance of this report 01 November 2006 (01.11.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Agnes Wittmann-Regis
Facsimile No. +41 22 338 82 70	e-mail: pt06@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) See form PCT/ISA/210 Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 34354P WO-1 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/EP2005/002255 03.03.2005 06.03.2004 International Patent Classification (IPC) or both national classification and IPC CO1 G33/00, CO1 G35/00, CO1 G1/02, CO1 B21/082, CO4B35/495, HO1 M10/40, H01 M6/18, H01 M8/12, H01 B1/12 Applicant WEPPNER, Werner This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/EP Authorized officer Facsimile No. Telephone No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/002255

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was a unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed attion, this opinion has been established on the basis of:
	a.	type of material
	*	a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	Ш	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/002255

Bo	x No. II Priority
I.	The following document has not yet been furnished:
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
	translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date in the claimed priority date.
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3.	Additional observations, if necessary:
	The validity of the priority claim has not been considered because
	the International Searching Authority does not have in its
	possession a copy of the earlier application whose priority has been
	claimed or, where required, a translation of that earlier
	application. This opinion has nevertheless been established on the
	assumption that the relevant date (Rules $43bis1$ and 64.1) is the
	claimed priority date.
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/,002255

Bo			Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;	
	citations and expl	anations su	upporting such statement	
l.	Statement			
	Novelty (N)	Claims	1, 4, 7, 9, 10, 16	YES
		Claims	2, 3, 5, 6, 8, 11-15, 17, 18	NO
	Inventive step (IS)	Claims	1, 4, 7, 9, 10, 16	YES
		Claims	2, 3, 5, 6, 8, 11-15, 17, 18	NO
	Industrial applicability (IA)	Claims	1-18	YES
		Claims	1	NO

2. Citations and explanations:

- 1) Reference is made to the following documents:
- D1: THANGADURAI, VENKATARAMAN ET AL: "Novel fast lithium ion conduction in garnet-type Li5La3M2O12 (M = Nb, Ta)" JOURNAL OF THE AMERICAN CERAMIC SOCIETY, 86(3), 437-440, XP002329148
- D2: MAZZA, D.: "Remarks on a ternary phase in the lanthanum sesquioxide-metal oxide (M2O5)-lithium oxide system (M = Nb, Ta)" MATERIALS LETTERS, 7(5-6), 205-7, 1988, XP002329149

2) Novelty - PCT Article 33(1) and (2)

D1 discloses $\text{Li}_5\text{La}_3\text{M}_2\text{O}_{12}$ (M = Nb, Ta) having a garnet-like structure as solid lithium ion conductor for use in, for instance, accumulators and fuel cells, for example in the form of pellets. It is prepared in a solid-state reaction of the salts of the participating elements which are mixed and subsequently heat treated, in accordance with the process in claim 15. The ion conductivity of $\text{Li}_5\text{La}_3\text{Ta}_2\text{O}_{12}$ is 3.4×10^{-6} S/cm. In view of D1, novelty can therefore not be acknowledged for claims 2, 3, 5, 6, 8, 11-13, 15, 17 and 18.

D2 discloses $\text{Li}_5\text{La}_3\text{M}_2\text{O}_{12}$ having a garnet-like structure. It is prepared in a solid-state reaction of the salts of the participating elements which are mixed and subsequently heat treated. Pressing to form pellets follows. In view of D2, novelty can therefore not be acknowledged for claims 2, 3, 5, 6, 8 and 11-14.